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FROM-GEN-PROBE EXECUTIVE OFFICE

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## **EXHIBIT A**

1. Mtx 17A mth A-246-45 With Cereyupin 17A mth A-246-45

Project No. mthTITLE in mth A 190 regionBook N. 2211

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## Materials —

T<sub>7</sub> A mth A-246, 2138-93, 15.84<sup>00</sup>/me, 0.52<sup>ue</sup>/15<sup>pmol</sup>  
 T<sub>7</sub> A mth A-246-Cordyepin 2228-18, 12.6<sup>00</sup>/me, 0.65<sup>ue</sup>/15<sup>pmol</sup>  
 T<sub>7</sub> A mth A-246-RP, 2138-58, 4.56<sup>00</sup>/me, 1.8<sup>ue</sup>/15<sup>pmol</sup>  
 Mgo A+146, 2158-55, 6.69<sup>00</sup>/me, 0.1<sup>ue</sup>/2<sup>pmol</sup>  
 10x GP/mth, 2134-100, 1M TMAc, 2211-99,  
 10x rNTP/mth, 2211-99, T<sub>7</sub> 10704, 2000/rxn  
 10mM dNTP/mth 2163-98, RT/74312, 3000/rxn  
 2M KCl, 2087-99, Nalc. SDB, ~~2211-100~~ 2211-100.

(I) Design	Control	Mgo A+146	5 <sup>ug</sup> (B) of g
a.	0.1 pm unbleached T <sub>7</sub> A-246 15 pmol Cordyepin	2 pmol	①-⑤ (16) (17)
b.	<del>5 pmol RP-linked T<sub>7</sub> A-246</del> <del>10 pmol Cordyepin</del>		⑥-⑩ 0.01 pm unbleached T <sub>7</sub> ⑪-⑮
c.	5 pmol RP-linked T <sub>7</sub> A-246 10 pmol Cordyepin	↓	⑪-⑮ 0.01 pm unbleached T <sub>7</sub> ⑯-⑳

(II) Mix	IX	IXx
Mgo A+146	0.1 <sup>ue</sup>	6.9
10x GP	10	190
10x rNTP	10	190
10mM dNTP	10	190
2M KCl	1.75	33.3
Glycerol	10	190
DMSO	10	190
1M TMAc	1	19
5% phenol Red	.5	9.5
MnCl <sub>2</sub> H <sub>2</sub> O	15.35	292
	68.7 <sup>ue</sup>	

(III) mth rRNA 2 sample → 958x

(A) 2<sup>ue</sup> + 998 H<sub>2</sub>O(B) 2<sup>ue</sup> + 264<sup>ue</sup> 2% BSA → 5% BSA

(IV) Enzyme mix (x 20)

RT 25x20=5<sup>ue</sup> } 11.3<sup>ue</sup>  
 T<sub>7</sub> 1x20=20 } per  
 Nalc 10x20=200 } addition

a(x8) 550<sup>ue</sup> mix  
 (x50) 1.4<sup>ue</sup> 0.1 pm T<sub>7</sub>-246  
 5.2<sup>ue</sup> 15 pm Cordyepin T<sub>7</sub>-246  
 73.4<sup>ue</sup> H<sub>2</sub>O  
 28.7<sup>ue</sup> x 7

b(x55) 378<sup>ue</sup> mix C(x5.5)  
 1.3<sup>ue</sup> 2 pm RP-246  
 3.1<sup>ue</sup> 13 pm T<sub>7</sub>-246  
 50.6<sup>ue</sup> H<sub>2</sub>O  
 78.7<sup>ue</sup> x 5

378<sup>ue</sup> mix  
 3.3<sup>ue</sup> RP-T<sub>7</sub>-246  
 2.4<sup>ue</sup> Cordyepin  
 49.3<sup>ue</sup> H<sub>2</sub>O  
 78.7<sup>ue</sup> x 5  
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Witnessed &amp; Understood by me,

Rosa Jankard

Dat

Invented by

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Recorded by

h. yang

Project No. 1111 D.

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